

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in this application.

1. (Currently Amended) A nucleic acid detection method comprising:  
fixing a cell-containing sample in divided compartments of a support;  
~~exposing~~ pre-treating the sample to enable amplification of nucleic acids  
contained in the sample;  
performing PCR by placing a PCR mixture, containing primers for amplifying a  
target nucleic acid, into the compartments of the support; and  
determining whether amplified nucleic acids in a PCR solution contain the target  
nucleic acid.
2. (Canceled)
3. (Previously Presented) The nucleic acid detection method as set forth in  
claim 1, wherein the nucleic acid exposing step is performed by one or more methods  
selected from the group consisting of a detergent treatment method, an enzyme  
treatment method, and a heat treatment method.
4. (Canceled)
5. (Previously Presented) The nucleic acid detection method as set forth in  
claim 1, wherein the amplified nucleic acids are labeled in the step of performing PCR.
6. (Currently Amended) The nucleic acid detection method as set forth in  
claim 5, wherein, in the determining step, ~~a target nucleic acid is detected if there is~~  
~~complementary hybridization of known gene fragments with probes, for which the~~

nucleic acids amplified and labeled in the step of performing PCR are used as probes for complementary hybridization with known gene fragments.

7. (Previously Presented) The nucleic acid detection method as set forth in claim 6, wherein the known gene fragments are fixed on the support in advance.

8. (Currently Amended) The nucleic acid detection method as set forth in claim 5, wherein, in the determining step, ~~a target nucleic acid is detected with use of a DNA microarray and probes, for which~~ the nucleic acids amplified and labeled in the step of performing PCR are used as probes for a DNA microarray.

9. (Previously Presented) The nucleic acid detection method as set forth in claim 1, wherein the sample originates in biological sources.

10. (Previously Presented) The nucleic acid detection method as set forth in claim 9, wherein the biological sample originates in humans.

11. (Currently Amended) A gene detecting kit for detecting a target gene in a sample according to a nucleic acid detection method of claim 1, comprising a support divided into a plurality of compartments.

12. (Currently Amended) A gene detecting kit for detecting a disease-associated gene of humans according to a nucleic acid detection method of claim 10, comprising a support divided into a plurality of compartments.

13. (Previously Presented) The gene detecting kit as set forth in claim 12, wherein the disease-associated gene of humans is a gene of infection-causing microbes that have infected humans.

14. (Previously Presented) The gene detecting kit as set forth in claim 13, wherein the gene of infection-causing microbes that have infected humans is a drug-resistant gene.

15. (Previously Presented) The gene detecting kit as set forth in claim 13, wherein the gene of infection-causing microbes that have infected humans is a drug-sensitive gene.

16. (Previously Presented) The gene detecting kit as set forth in claim 12, wherein the disease-associated gene of humans is a marker gene for cancer.

17. (Previously Presented) The gene detecting kit as set forth in claim 12, wherein the disease-associated gene of humans is a genetic disease-associated gene.

18. (Previously Presented) The gene detecting kit as set forth in claim 11, which comprises: a target gene amplifying primer; PCR reaction buffer; a mixture of deoxynucleoside triphosphate; labeled deoxynucleoside triphosphate; thermostable DNA polymerase; a sample-fixing support; and an indicator for detecting amplified nucleic acids.

19. (Previously Presented) The nucleic acid detection method as set forth in claim 1, wherein the support with the divided compartments is shaped to fit a gene amplifier for PCR (thermal cycler).

20. (Previously Presented) The nucleic acid detection method as set forth in claim 1, wherein, in the determining step, the target nucleic acid is detected by electrophoresis.